#### Savannah River Site

### Transuranic and Solid Waste Program Update

Presentation to the SRS Citizens Advisory Board
Waste Management Committee
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#### Purpose

- 1) Provide Update CAB on the SRS Transuranic (TRU) Waste Program and Waste Isolation Pilot Plant (WIPP)
- Provide general disposal understanding for other Solid Waste streams
- 3) To fulfill 2012 Work Plan topic







#### Solid Waste Disposition Program

#### Manage the Treatment, Storage and Disposal of:

- Hazardous Waste (HW),
- Radioactive Low Level Waste (LLW),
- Transuranic Waste (TRU),
- Radioactive Mixed Low Level Waste (MLLW), and
- Sanitary Waste







#### Low Level Waste Program

- Waste generated from SRS operations, D&D, and Environmental Cleanup
- No legacy waste in storage
- On-site Disposal Facility









# Mixed Low Level Waste and Hazardous Waste Program

- Generated from SRS operations, legacy TRU waste (MLLW), and Environmental Cleanup
- Off site Disposal Facilities only







#### TRU Waste Disposal Program

- Generated from SRS operations since 1970
- Off-site Disposal at the WIPP
- 11,600 cubic meters legacy TRU waste inventory in 2002
- Some off-site received in 2003 through 2005
- Numerous CAB Recommendations and strong CAB support over the years that has contributed to the program success







#### TRU Waste Disposal Success

- WIPP opened in 1999
- First SRS shipment to WIPP May 8, 2001
- Effective regulatory framework strategy with South Carolina Department of Health and Environmental Control
- 1,285 shipments of TRU waste have been disposed at WIPP
- Approximately 2,700 cubic meters of legacy and newly generated TRU waste at SRS today
- Repackaging and/or remediating in four facilities and shipping at 4 trucks per week





#### Drum Remediation – F Canyon









#### Box Remediation – H Canyon

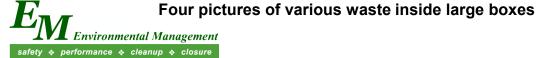














#### Box Remediation – F Canyon



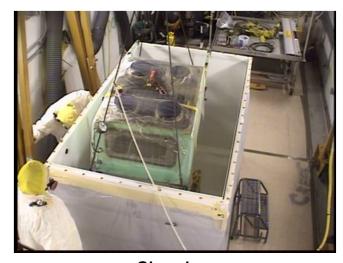
Glove bag operation







**Ten Drum Overpack** 



Glove box



#### Box Remediation - Cell 11

















## TRUPACT-III Loading



Truck coming in bay





Back of TRUPACT\_III and loading platform

Environmental Management

safety \* performance \* cleanup \* closure



**TRUPACT-III** doors on rack



Waste box on platform



#### Legacy TRU Waste Remaining

- Legacy TRU Inventory 2,500 cubic meters
  - Last 5,200 cubic meters funded by American Recovery and Reinvestment Act
  - ~800 cubic meters left to remediate/repackage
  - Remediation completed by 12/30/12
  - WIPP Characterization/certification completed by March 2013
  - Shipments to WIPP completed by summer 2013







#### Summary

- Solid Waste Operations are regulatory compliant and efficient.
- Ongoing Low-Level, Mixed and Hazardous Waste operations keeping pace with SRS demands
- Legacy TRU waste disposition on pace to complete by March 2013.



